

SEQ ID NO:1

1 ggaattctgg cgcacaacct ataacggccg gccgatggtc atgttcgaaa ggcggtcgag
61 ggcattccgag gcttagagct gtatgaggaa aagtgtgtgc ggttttccgc tcgcatcccg
121 cgtctgaact tcctggaacc gatcaccttc atgtcttaag tcgatccgac ccaaaacatg
5 181 gtgatccagg ccccgcgccg aaaagcggaa agatgaacaa ttcttaatta ttttcagcct
241 tttacgccac cgaaacggcc acattccggt ccactttcgt gaccgttggc acggcgcgag
301 atcctggctg gacacaacaa ggcgcagtag caaccagtcg aaacgggtcca gctttcttcg
361 ctgcggggcg catcacccgt aaacgacccg tgctggcctg caggctgctc ctacagagaag
421 caaacggccg tggcagggtca cgtgaccgat cgtcgctggg gcagccgcaa aacaaaaagg
10 481 agcatgacaa tgaacagcat tgcgaaaatc tccgtcatcg ccacctctc cgcccttacc
541 ttcgcccggaa tcttccaagc ggcgagcgtc gaaatgaact ggccggaccg gatcgaccag
601 accgtgcgca ccttcaaggg cgacaatttc cgcgttgtcg atgtcgatac gttgagccgc
661 cagaaccaga cccgtatgcg agtagacaag gcaacaccgg ggcagcgtgc cgcattgcaa
721 gccgctgtcg aagccaacag accgctgctc gtttcgctta gggcagcga tgcgaactg
15 781 gacaacgtcg ccgcggcgaa ccaggcgccc gatggcgagc tgacgatcta cctcgctga
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901 gacgggagat ttctttcagc cagacgttat tctgcttg gaggccggaa ttcgccaac
961 cgcgcggcgt agcgcgccat cgtgtccacc tcgaaattga cgagatcgcc ggacttgcgt
1021 tcgccccagg tcgtcacttc gagcgaatgt cggatcagca atacgtcgaa ttcgacgcca
20 1081 tccaccttgt tcacgggtgag cgacgtcccg tcgagcgcca ccgagccctt gggcgcgatg
1141 aatttcgca gatgttcggg tgcctgagg cggaagcgca cggcttcccc ctccgcttcg
1201 acggcaagga tctccgcttt gccgtcgaca tgccgggaga cgatgtgacc cccagttcg
1261 tcgccgatct tcagcgagcg ctcaagattg atgcgctgc cctcacgcca gtcggcgatc
1321 gtcgtcagcc tcagcgcttc ctccatgcc tcgacctga accagcgttc gttgctgccc
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30 1681 gtgaaaagca ggattcgatc caccagatcc gcatcgagaa aggaacgcgc cgctctggcc
1741 ccacctcca cgagcaggga ggagatgccc cgggatgcaa gtgcggccag gaggtctggg
1801 atggtatcgg cgctcagcag ctccggcccc gcagcttcga gggctcctcg acgggcgtcg
1861 taatcggctc ctgcctccgc gagcggagag aggactgggt ctccgggtcga acccgaggag
1921 aggggcaaac tgctctgccc ctcatccgcc ctccgggcac ctgctccctg ctcgaggaa
35 1981 gaaggatagc ccgcgtctcc cgttacgac atcagcggaa cgtcgcgcg agtcggacc
2041 aatttcgact cgagcggcag atcgagcgg cggtcgagca cgatccggac cggagagcgc
2101 tctccagcc ctggcatccg caccgtaagt tccggatcgt cggcaatggc cgtaccgata
2161 ccgacgagga tcgcgtccgt ctccggcacgc aacacctgca cctgggcgcg agagacggca
2221 ccggaaatcc tcacctgccc ctccgctctc cgtccgatca tgccgtccgc ggaaaccgca
40 2281 agtttcagag tcacatgcgg gcgtttcttg cgtgacgca tgaggtaggc ctcgagcaca
2341 cgcccgccct ctcatggag cgtgcctatg tcgacgtcaa tgccggcgcc gcgaagcatc
2401 accacgccgc ggccggcaac gcgttcacg ggatcgagga tggaacgac gacacggccg
2461 acccccgagg cgatcagcgc atctgcgcag ggcggggtct tgccatgatg cgagcagggt
45 2521 tcgagggcga cataggcggg cgctcccttc gccttttcgc ccgcctccgc aagcgctgc
2581 gtttcgcgt gcggtcgccc gcccggagcg gtcacggctc ggccgacgat cgtgcccttg
2641 ttgacgatga tgcagccgac cgagggattg gtggaagtca ggccgagatt gcgccttgca
2701 agccgcagcg ccgccgccat gaaacgttcg tcttcacgtg ccggctcgcc cataccgctt
2761 gttctccggg ttattcgccc ggatcgcggg caatcttggc gcttatctcg gcgatcacct
2821 tttcgaaatc ctccgcatgg gagaaatcgc gatagaccga cgcgtagcgc acgaaggcaa
50 2881 cgtcgtcgag gctcttcaac gcctcgagca cctgaaggcc gatttcctcc gaggaattt
2941 cggtttcgcc cgagctttcg agccggcgga cgatgccga caccgcccgt tcgatccggg
3001 cgcgatccac cgggcgcttg cgaagcgcga tctcgaagga gcgcagcagc ttatcccggt
3061 cgaaaggaac cttccgaccg gtcttcttga tgatcatcag ctacgcagc tgcaccgct
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3241 gcatgcagcc gtccgatcac atatagccgt acatcgggaa gcggtcgggt agcttgatca
3301 ccttctcgcg cacgccagcc tcgacagcgg catcgccctc gtcggaattg gcggcttgga
3361 gctcgtcgag cacctcgacg atcagttcgc cgacctcctt gaactccgc tccttgaagc
3421 cgcgcgtcgt accggccggt gcaccgaggg gcacgccgga ggtgacgaag ggcttttcgg
60 3481 ggtcgaaggg aatgccgttc ttgttgacgg tgacgtagca cggccgagag cagcttcggc

5	3541	acgcttgccg	gtcgcattct	tcttgccgag	gtcgcaccagg	catcaggttg	gtgtcggtag
	3601	cgccgagacg	atgtccatcc	agggcgttgg	ccttcaaggt	ttcggcaagg	gtgcgggcgt
	3661	tcttgacgac	ctgggcccga	taatccttga	aggagggtcg	cagcgcctcg	ccaagcgcga
	3721	cggccttggc	ggcaatcacg	tgcatacagc	gcccaccgtg	gagaccgggt	aatacggcgg
	3781	agttgatctt	cttggcgatt	tctctgtcat	tgcgtaggat	cattgccggc	cggggggccgc
10	3841	cgagggactt	gtgcgtggtc	gtcgtcgcaa	cgtggcagtg	cgggaacggc	gacggatgct
	3901	ggccaccggc	cacgagaccg	gcgatgtggg	ccatgtcgac	catcagccac	gcgccacct
	3961	cgtcggcgat	ctcgcggaag	cgcttccagt	cccagatgcg	ggaataggcc	gttccgcccgg
	4021	cgatgatcag	tttcggcttc	tgctcgcgcg	ccttctctgg	gacttctgtc	atgtcgagaa
	4081	ggtgatcgct	ttcgcgcacg	ccgtaggaaa	cgacgttgaa	ccatttgcgc	gacatgttca
	4141	ccgggggacc	atgggtcagg	tggccgcggg	aattgaggtc	gaggcccatg	aagggtgtcgc
	4201	ccggctgcag	cagcgcaccg	aagaccgcct	ggttcatctg	ggagcccg	

SEQ ID NO:2 and SEQ ID NO:3

1547 atggtttacaggcatcatccacgcacatcggtacggtcgagaaaggtc
 1502 M F T G I I T D I G T V E K V
 T P L E E G I K L R V A T N Y
 1457 gacccgcagacgatcgatctgggtgcctcggtcgcgcatgccggc
 D P Q T I D L G A S V A H A G
 1412 atctgcctgaccgtcacgtcacttccggaagccggcgagcaacgaa
 I C L T V T S L P E A G S N E
 1367 cgctgggttcgaggtcgaggcatgggagggaagcgctgagggtgacg
 R W F E V E A W E E A L R L T
 1322 acgatcgccgactggcggtgagggcacgcgcacatcattgagcgc
 T I A D W R E G T R I N L E R
 1277 tgcgtgaagatcgccgacgaactgggcggtcacatcgtctccggc
 S L K I G G D E L G G H I V S G
 1232 catgtcgacggcgaagcgagatccttgccgtcgaagcggagggg
 H V D G G K A E I L A V E A E G
 1187 gaagccgtgcgcttccgcctcagggcaccggaacatctcgcgaaa
 E A V R F R L R A P E H L A K
 1142 ttcacgcgcgcccaagggtcgggtggcgctcgacgggacgtcgctc
 F I A P K G S V A L D G T T S L
 1097 accgtgaacaaggtggatggcgctcgaattcgacgtattgctgac
 T V N K V D G V E F D V L L I
 1052 cgacattcgctcgaagtgacgacctggggcggaacgcaagtccggc
 R H S L E V T T W G E R K S G
 1007 gatctcgtcaatttcgaggtggacacgatggcgcgctacgccgcg
 D L V N F E V D T M A R Y A A
 962 cgggtggcggaattcccggtcccaagcaggaataa 927
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SEQ ID NO:4 and SEQ ID NO:5

	2753	atgggcgagccggcacgtgaagacgaacgtttcatggcgggcggcg	SEQ ID NO:4
45		M G E P A R E D E R F M A A A	SEQ ID NO:5
	2708	ctgccggttgcaaggcgcaatctcggcctgacttccaccaatccc	
		L R L A R R N L G L T S T N P	
	2663	tccggtcgggtgcatcatcgtcaacaagggcacgatcgtcggccga	
50		S V G C I I V N K G T I V G R	
	2618	gccgtgaccgctccggggcgggcgaccgcacgcggaaacgcaggcg	
		A V T A A P G G R P H A E T Q A	
	2573	cttgccgaggcgggcgaaaaggcgaggggagcgaccgcctatgtc	
		L A E A G E K A R G A T A Y V	
55	2528	gccctcgaaccctgctcgcattcatggcaagacccccgcctgcgca	
		A L E P C S H H G K T P P C A	
	2483	gatgcgctgatcgcctcgggggtcggccgtgtcgtcttccatc	
		D A L I A S G V G R V V S I	

	2438	ctcgcgtcccgatgaacgcgttcgcggccgcgcgtgggtgatgctt
		L D P D E R V A G R G V V M L
	2393	cgcgccgcgcggcattgacgtcgacataggcacgctccatgaagag
		R G A G I D V D I G T L H E E
5	2348	ggcgggcggtgtgctcgaggcctacctcatgcgtcagcgcaagaaa
		G G R V L E A Y L M R Q R K K
	2303	gcggcgcatgtgactctgaaacttcggtttccgcggacggcgtg
		R P H V T L K L A V S A D G M
10	2258	atcggacggagaggcgagggggcaggtgaggatttccgggtgccgtc
		I G R R G E G Q V R I S G A V
	2213	tctcgcgcccaggtgcaggtgttgctgcgtgccgagacggacgcgatc
		S R A Q V Q V L R A E T D A I
	2168	ctcgcgtgatcgggtacggccattgccgacgatccggaacttacg
		L V G I G T A I A D D P E L T
15	2123	gtgcgggatgccagggctggaggagcgctctccgggtccggatcg
		V R M P G L E E R S P V R I V
	2078	ctcgaccgcgcctcgatctgccgctcgagtcgaaattgggtccgc
		L D R R L D L P L E S K L V R
20	2033	actgcgcgcgcagcttcgcgtgatcgctcgtaacgggagacgcgggc
		T A R D V P L I V V T G D A G
	1988	tatccttcttcccacgagcagggagcaggtgccgaagggcggtat
		Y P S S H E Q G A G A R R A D
	1943	gagggggcagagcagtttgcccctctcctcgggttcgacccgagaa
		E G Q S S L P L S S G S T R E
25	1898	ccagtcctctctcgcgtcgcggaggcagggaccgattacgacgcc
		P V L S P L A E A G T D Y D A
	1853	cgtcgaggagccctcgaagctgcgggggccgagctgctgagcgcc
		R R G A L E A A G A E L L S A
30	1808	gataccatcccagacctcctggccgcacttgcatcccgggggcatc
		D T I P D L L A A L A S R G I
	1763	tcctccctgctcgtggaggggtggggccagagcgggcgcttccttt
		S S L L V E G G A R A A R S F
	1718	ctcgatcgcgatctggtgatcgaatcctgcttttcaccgggtccg
		L D A D L V D R I L L F T G P
35	1673	gcagccattggcggaaggtgggtatttcatccccatttcaaaggacg
		A A I G E G G I S S P F Q R T
	1628	tcggtgcccgagggcttcacgcttcgccgcacggcgcgctatggc
		S V P E E G F T L R T A R Y G
40	1583	gacgatattttcgaggatttacgagagagatagctga 1548
		D D I F E D Y E R D S *

SEQ ID NO:6 and SEQ ID NO:7

	3244	atgcgctgccccctattgcggttcggaagacagtcagggtgaaggat
		M R C P Y C G S E D S Q V K D
45	3199	tcccgctccggcggaggacgggaacgccattcgccgccgccgcgcatc
		S R P A E D G N A I R R R R I
	3154	tgcccggttgcggcgccgcttcacgaccttcgagcgggtgcag
		C P D C G G R F T T F E R V Q
50	3109	ctgcgtgagctgatgatcatcaagaagaccgggtcggaagggttcct
		L R E L M I I K K T G R K V P
	3064	ttcgaccgggataagctgctgcgctccttcgagatcgcgcttcgc
		F D R D K L R S F E I A L R
	3019	aagcgccccggtggatcgcgaccgggatcgaacggcggtgtcgggc
		K R P V D R D R I E R A V S G
55	2974	atcgctccgccgggtcgaagctcgggcgaacccgaaattccctcg
		I V R R L E S S G E T E I P S
	2929	gaggaaatcggccttcagggtgctcgaggcgttgaagagcctcgac
		E E I G L V L E A L K S L D
	2884	gacgattgccttcgtgcgctacgcgtcgggtctatcgcgatttctcc

SEQ ID NO:6

SEO ID NO:7

D V A F V R Y A S V Y R D F S
 2839 catgcgaggatttcgaaaaggtgatcgccgagataagcgccaag
 H A E D F E K V I A E I S A K
 2794 attgcccgcgatccggcgcaataa 2771
 I A R D P G E *

SEO ID NO:8 and SEO ID NO:9

4555 atgcttttcacagaccacacgcttttcttcacccgctctctcgcgc
M L S Q T N D A F F T R S L A
4510 gacagcgatccggaaatcttcggtgcgatcgagaaggagctgggc
D S D P E I F G A I E K E L G
4465 cgccagcgccatgagatcgagctgacgcctccggaacatcggtt
R Q R H E I E L I A S E N I V
4420 tcacggggcgtgctcgaggcgagggctcgatcatgaccaacaaa
S R A V L E A Q G S I M T N K
4375 tacgccgaggggttaccgggcaagcgctattacggcgcgctgcca
Y A E G Y P G K R Y Y G G C Q
4330 tatgtcgatatcgccgaggcactcgcgatcgagcgcgccaagaag
Y V D I A E A L A I E R A K K
4285 ctcttcggcgtaacttcggaacgtgcaaccgaattcgggctcc
L F G G V N F A N V Q P N S G S
4240 cagatgaaccaggcggtcttctcgtgctgacggcgggcgac
Q M N Q A V F L A L L Q P G D
4195 accttcatgggctcgacctcaattcggcgccacctgacctat
T F M G L D L N S G G H L T H
4150 ggggtcccggtgaacatgtcgggcaaatgggtcaacgctcgtttcc
G S P V N M S G K W F N V V S
4105 tacggcgtgcgcgaagacgatcaccttctcgacatggacgaagtc
Y G V R E D D H L L D M D E V
4060 gccaggaaggcgcgagcagaagccgaaactgatcatcgccggc
A R K A R E Q K P K L I I A G
4015 ggaacggcctattcccgcatctgggactggaagcgcttccgcgag
G T A Y S R I W D W K R F R E
3970 atcgccgacgaggtgggcgctgggtgatggctgacatggccac
I A D E V G A W L M V D M A H
3925 atcgccggtctcgtggcggtggccagcactcgcttccgttccg
I A G L V A G G Q H P S P F P
3880 cactgccacgttgcgacgacgaccacgcacaaagtccctgcgcggc
H C H V A T T T H K S L R G
3835 ccccgcgccgatgatcctcaccaatgacgaggaatcccaag
P R G G M I L T N D E E I A K
3790 aagatcaactccgctgattcccggtctccagggtggcgcgctg
K I N S A V F P G L Q G G P L
3745 atgcacgtgattgcccgaaggccgctcgcgcttggcgagggcgctg
M H V I A A K A V A L G E A L
3700 cagccctccttcaaggattatgcggcccaggctcgtaagaacgcc
Q P S F K D Y A A Q V V K N A
3655 cgcacccttgcgaacacctgaaggccaacggcctggatggacat
R T L A E T L K A N G L D G H
3610 cgtctcggcggtaccgacacccacctgatgcctggctgacctgcy
R L G G T D T H L M P G R P A
3565 caagaagaatgcgacgggcaagcgctgccgaagctgctctcgccg
Q E E C D R Q A C S C S R P
3520 tgctacgtcacctgcaacaagaacggcattcccttcgaccccgaa
C Y V T C C N K N G I P F D P E
3475 aagcccttgcctcacctccggcgctgcgcctcggtgcaccggcggt
K P F V T S G V R L G A P A G
3430 acgacgcgcggttcaaggaggcgaggttcaaggaggtcgccgaa
T T R G F K E A E F K E V G E
3385 ctgatcgctgaggtgctcgacgggtctcaaggccgccaattccgac
L I V E V L D G L K A A N S D
3340 gagggcaatgccgctgctcgaggctggcgctgcgcgagaaggtgatc
E G N A A V E A G V R E K V I
3295 aagctcaccgaccgcttcccgatgtacggctatatgtga 3257
K L T D R F P M Y G Y M *

SEQ ID NO:10 and SEQ ID NO:11

106 atgtcctacgaccagaagcgcgctcgtaagccattcgcgcccttc SEQ ID NO:10
M S Y D Q K R V V E A I R A F SEQ ID NO:11
5 151 gaagcaggcgagatcgctcgctcaccgacgacggcgccgtgag
E A G E I V V V T D D G G R E
196 aacgagggcgacctgatcgctcgagcgggtgcaactgcacgcctgag
N E G D L I V A A V H C T P E
241 aagatggcggttcacgtgcgccatacctccggcatcgctctgcacg
K M A F I V R H T S G I V C T
10 286 ccgatgccgcgcgaggaggcaaacgcctcaacctgaatgcgatg
P M P R E E A K R L N L N A M
331 gttgccgagaaacgactccgcccacaccacgccttcacgggtgtcg
V A E N D S A H T T A F T V S
376 gtcgatttcaagcacgggaccacgaccggcatttccgcagacgac
15 V D F K H G T T T G I S A D D
421 cgaacgcttacggtcagaaaccttgccaatccgaatgtcgggccc
R T L T V R N L A N P N V G P
466 acggatttcgtccggccggccacatattccctctcgtggcgcgcc
T D F V R P G H I F P L V A R
20 511 gagggcgcggtgctgatgcgctccggccataccgaggccgcccgtc
E G G V L M R S G H T E A A V
556 gatctctgcaggctcgcgagcctgccgcccgatcggcgctcatctgc
D L C R L A S L P P I G V I C
601 gaactcgtcaacgatgacggcaccgctcatgcgtgggcccgcaggtc
25 E L V N D D G T V M R G P Q V
646 gaagccttcgcggaaacgcacggcctgaagcagggtctccgtggcc
E A F A E T H G L K Q V S V A
691 gatctcattgcctatcgccagcgcaaggagaccttgatcgagcag
D L I A Y R Q R K E T L I E Q
30 736 ggccattccttcgaaatggacacgcccacggcaaggccaagggc
G H S F E M D T P Y G K A K G
781 cacacctattcgctgccctgggatacgatgcagcacctggccgtg
H T Y S L P W D T M Q H L A V
826 gttttcgggagacattcgcgacggcgctcgacattcccgtgcgtctc
35 V F G D I R D G V D I P V R L
871 cacctcgaaaatgtcggagccgacgtcttcggccgcgcccgccag
H L E N V G A D V F G R G R Q
916 atcgacgagatcatgaagcgcatcgccgcccaggggaggggcgctc
I D E I M K R I A A E G R G V
40 961 atcgtctatctgcgggagggtccgtgggggtcggaatttcgcag
I V Y L R E G S V G V G I S Q
1006 acagcgcgaaagggcaagcacgagagggagggtccactcggaggca
T A R K G K H E R E V H S E A
1051 caggagcgcgaaagcgagtggctggagatcggcctcggcgcgcac
45 Q E R E S E W L E I G L G A H
1096 atcctgaaagacctcggcacacctccattcgccttcttcgtcg
I L K D L G I T S I R L L S S
1141 cgcgagcggcattatgtcggcctggagggttcggcatcaagatc
R E R H Y V G L E G F G I K I
50 1186 gccgctaccgagattctgtcaatccggaagagcccaaatcaaag
A A T E I L S I R K S P K S K
1231 ccgcgctaccccgacgcggctccctcgccctgaagcaagctgccgt
P R H P T R L P R L E A S C R
1276 tacggcagggcgctcgtag 1293
55 Y G R A S *

SEQ ID NO:12 and SEQ ID NO:13

379 atggcgaaagatcaagcccgtccacatcctgattgtggaagcgcg SEQ ID NO:12

SEQ ID NO:13

5
10
15
20

424
469
514
559
604
649
694
739
784
829

M A K I K P V H I L I V E A R
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F Y D D M A D A M L D G A K H
gcgctggatgcgggcggcgccacttatatattgtgcggtcccggg
A L D A A G A T Y I L C G P G
gcactggaaattcccgcgggcgatcgccatggcgctcgatggtgcc
A L E I P A A I A M A L D G A
gacgaaggcgggcggaatatgacggcttcgttgcgctcggcatg
D E G G A E Y D G F V A L G M
gtgatccgcggcgagacctaccatttcgacatcgctcgccaacgag
V I R G E T Y H F D I V A N E
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S A R A L M D L A V S E S L A
ctcggcaacggcattctgacggtcgagaacgacgacgaggcctgg
L G N G I L T V E N D E Q A W
gcacggggcccgccgtacggaaggcgacaagggcggttcgccgcg
A R A R R T E G D K G G F A A
cgcgccgccctgaccatgatcgaactgaagcaaagattgggcgca
R A A L T M I E L K Q R L G A
gagaagtga 837
E K *

SEQ ID NO:14

ribCF

25 5'-GACGTTATTCCTGCTTGGGAG-3'

SEO ID NO:15

ribCR

5'-GATATTTTCGAGGATTACGAGAG-3'

SEO ID NO:16

ribDF

5'-AAACATTCAGCTATCTCTCTCGT-3'

35 SEQ ID NO:17

ribDR

5'-TCTATCGCGATTTCTCCCATG-3'

SEO ID NO:18

40 *glyAF*

5'-CAGCCGTCCGATCACATATAG-3'

SEQ ID NO:19

glyAR

45 5'-AGTAGACCGGGACCTCTTCGG-3'

SEO ID NO:20

ribBAF

5'-GGCGGCTGAAGTAACTCCACT-3'

50

SEO ID NO:21

ribBAR

5'-AAGACGAGCTTCTCAAGACCT-3'

SEQ ID NO:22

ribHF

5 5'-ATGCCGATATCCTTGAGACCG-3'

SEQ ID NO:23

ribHR

5'-GTCTGCCCCGGAGATAGGTGTC-3'

10